

DEVAL L. PATRICK GOVERNOR

TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER

The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

12/21/2011

Laura Marshard
Assistant District Attorney, Cape and Islands

Dear ADA Marshard,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:

- Curriculum Vitae for Annie Dookhan and Peter Piro.
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for samples #
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Peter Piro analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Charles !

Annie Dookhan

Chemist

Sincerelv/

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry. University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- *Maintenance and repairs of all analytical instruments.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court.
- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Notary Public.

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department for the Food and Drug Administration.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice - Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Peter Piro

EDUCATION

Boston University

B.A. in Chemistry and Minor in Biology, 1989

HONORS

Magna Cum Laude, 3.6 GPA
Graduated with Distinction in Chemistry
Valedictorian of the Chemistry Department

EXPERIENCE

Department of Public Health/State Laboratory Institute

Chemist III, II, I/ Assistant Analyst

December 1991-Present

Supervise the operation and maintenance of the Gas Chromatography/Mass

Spectrometry Laboratory. Analyze controlled substances for State and Federal law enforcement agencies. Qualified as an expert witness in Massachusetts courts and U.S. District Court.

Massachusetts Health Research Institute

Laboratory Technician

September 1990-December 1991

Researched the seasonal and special occurrences of DSP and PSP in shellfish samples harvested from coastal waters and Georges Bank.

TRAINING AND ORGANIZATIONS

- * Completed a six-week training course by senior staff within the Department of Public Health Drug Analysis laboratory.
- * Appointed Assistant Analyst by the Assistant Commissioner of Public Health in . February 1991.
- * Elected as a Regular Member to the Northeastern Association of Forensic Chemists on October 27th 1995.
- * Completed training in Mass Spectrometry given by the Food and Drug Administration/Forensic Chemistry Center on November 2002.
- * Completed training in Mass Spectrometry Troubleshooting and Maintenance, October 25th 2002, at Agilent Technologies.
- * Notary Public since 1993.

PLEASE PRINT CLEARLY OR TYPE ALL INFORMATION



The Commonwealth of Massachusetts Executive Office of Health and Human Services

Boston Drug Laboratory Tel (617) 983-6622 Fax (617) 983-6625 Department of Public Health State Laboratory Institute

Amherst Drug Laboratory Tel (413) 545-2601 Fax (413) 545-2608

Boston Hours 8:00 - 11:00 2:00 - 4:00

Name and Rank of Submitting Officer:

DRUG RECEIPT

Police Reference No.:

Dale Bluffs

Amherst Hours 9:00 - 12:00 1:00 - 4:00

F. I. M. A. N. I. B. I. S. A. S. N.		
efendant(s) Name (last, first, initial)		· · · · · · · · · · · · · · · · · · ·
		•
	To he completed by	I ah Bayaanad
escription of Samples	To be completed by a Gross Weight	Lab Number
39 individually Packaged		
2 Chageo		
Les of the popular	48,24	
bags of white powder	10001	
believed to be cocaire		
PRIMERA TO De Cocaine		
eceived by: Date:	1	3-11
Date:		/ Folk_OIG_PRR

5-17-11

Date Analyzed: City: Oak bruffs Police De Officer: P.O. STEVEN PUPEK

1

Def: SUB Amount:

No. Cont: 39 Cont: pb

Date Rec'd: 05/03/2011 No. Analyzed: 18

48.240 Net Wt: 20.72 Gross Wt:

#Tests: 108 ASO # 367,8:00

Findings: Cocraine Prelim: Coccure

DRUG POWDER ANALYSIS FORM

AMPLE # AGENC	Y OGIC BLUFFS. ANALYST AST
No. of samples tested: <u>\δ</u>	Evidence Wt.
HYSICAL DESCRIPTION:	Gross Wt (39): 44.1
Multe bondrag +	FOLLARICA Gross Wt (18): 19.9
SHISTOR 17	3 1 6 bs Pkg. Wt:
•	Net Wt:
Mether masons	
Wettler Wasonz B10	1160462 1
Ohaus 1010110 112546	39269 ~
·	
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt	Gold
Thiocyanate (+) +	18 Chloride 7
Y Marquis	1 & TLTA (+) +
Froehde's	OTHER TESTS
% Mecke's	
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS cocare	RESULTS COCOLLO
DATE 5-15-11	MS
	OPERATOR P39
	DATE 5-17-11

Revised 7/2005

samples tested: \8

#	Gross Weight	Packet Weight	Net Welght	#	Gross Welght	Packet Welght	Net Weight
1	1.0187	0.5327	0.4860	26	off while		41017-0001-00
2	1.1284	0.4844	0.6690	27			
3	1.0875	०.५३०४	0.6367	28			
4	0.9628	0.3165	0.4463	29	OFF While		Section 1
5	1.202	0.5393	0.7309	30			
6	1.1384	0.9210	0.4814	31	off while		
7	0.7983	0.3970	0.4013	32	oce min		
8	1.3015	0.8705	0.7310	33			
9	1.0624	0.6651	0.3973	34	Oft 10 21	·c	- 17.00
10	1.0413	06466	0.3947	35	שהר האי	<u>e</u>	
11	1.2252	0.5562	0.6690	36			
12	1.3652	0.6440	0.7212	37			
13	1.0641	J. 4439	0.5702	38			
14	1.0673	0.5806	0.4867	39	OFF While		
15	1.1258	ღ. 6873	0.4385	40	of whi	,	
16	1.0930	6.6024	0.4906	41	محد بمدرد	e	
17	1.0000	0.6456	0-3550	42	off whi	د	
18	1.1642	0.7264	0.4378	43	054 WW1	e .	
19				44			
20				45			
21				46			
22				47			
23	-		,	48	- A Managana		
24				49			
25				50			

Calculations:

(28) E1 E2.0 = 8110E02.P = 0.5313

= 20.7207

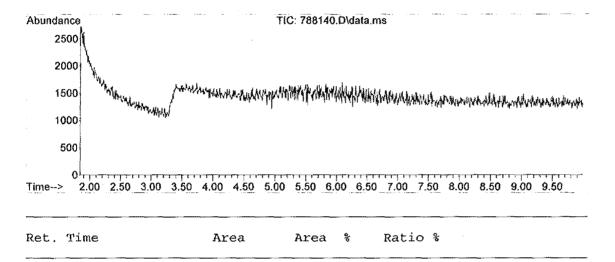
File Name : D:\SYSTEM8\05_15_11\788140.D

Operator : P.PIRO

Date Acquired : 15 May 2011 20:04 Sample Name : BLANK

Submitted by

Vial Number AcquisitionMeth: DRUGS.M Integrator : RTE



NO INTEGRATED PEAKS

File Name : D:\SYSTEM8\05 15 11\788141.D

Operator : P.PIRO

Date Acquired : 15 May 2011 20:17

Sample Name

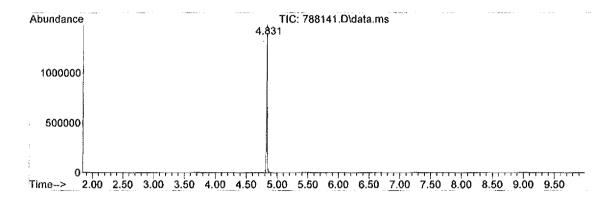
: COCAINE STD

Submitted by

Vial Number AcquisitionMeth: DRUGS.M

Integrator

: RTE



Ret. Time	Area	Area %	Ratio %
4.831	1167185	100.00	100.00

File Name : D:\SYSTEM8\05_15_11\788141.D

Operator : P.PIRO

Date Acquired : 15 May 2011 20:17

Sample Name : COCAINE STD

Submitted by

Vial Number : 6 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80

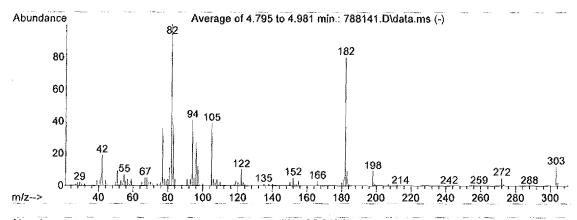
C:\Database\PMW_TOX2.L

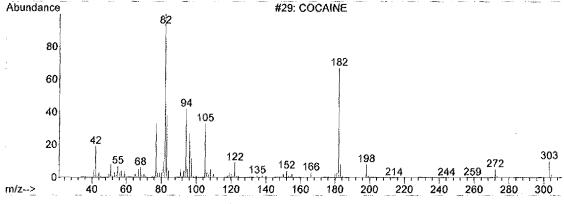
PK# RT Library/ID CAS# Qual

1 4.83 C:\Database\SLI.L COCAINE

000050-36-2

99



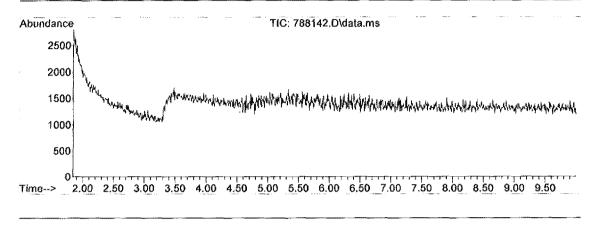


File Name : D:\SYSTEM8\05_15_11\788142.D

Operator : P.PIRO

Date Acquired : 15 May 2011 20:30

Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time

Area

Area %

Ratio %

NO INTEGRATED PEAKS

File Name : D:\SYSTEM8\05_15_11\788143.D

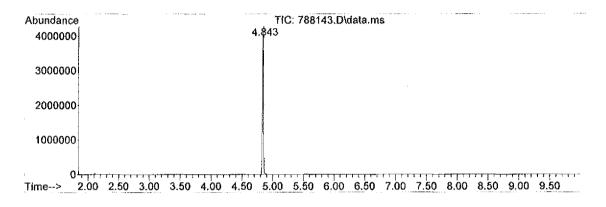
: P.PIRO Operator

Date Acquired : 15 May 2011 20:43

Sample Name Submitted by

: ASD

Vial Number 43 AcquisitionMeth: DRUGS.M Integrator ; RTE



Ret. Time	Area	Area %	Ratio %
4.843	5298056	100.00	100.00

File Name : D:\SYSTEM8\05 15 11\788143.D

Operator : P.PIRO

Date Acquired : 15 May 2011 20:43

Sample Name :

Submitted by : ASD
Vial Number : 43
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

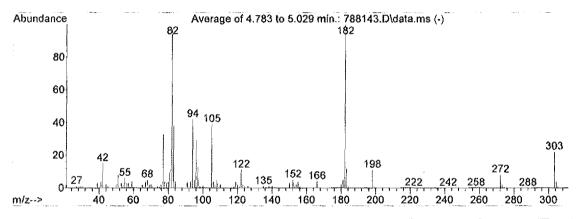
Minimum Quality: 80

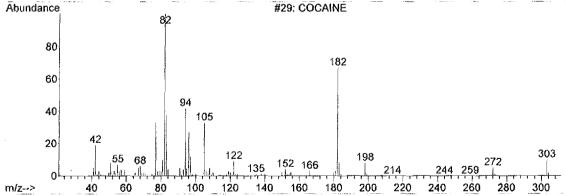
C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4 84	C:\Database\SLI.L		
	1.01	COCAINE	000050-36-2	99





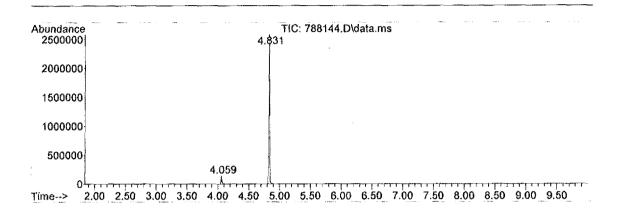
File Name : D:\SYSTEM8\05_15_11\788144.D

Operator : P.PIRO

Date Acquired : 15 May 2011 20:56

Sample Name

Submitted by : ASD
Vial Number : 44
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
4.059 4.831	152534 2393432	5,99 94,01		

File Name : D:\SYSTEM8\05 15 11\788144.D

Operator : P.PIRO

Date Acquired 20:56 : <u>15 May</u> 2011

Sample Name

Submitted by ASD Vial Number 44 AcquisitionMeth: DRUGS.M Integrator : RTE

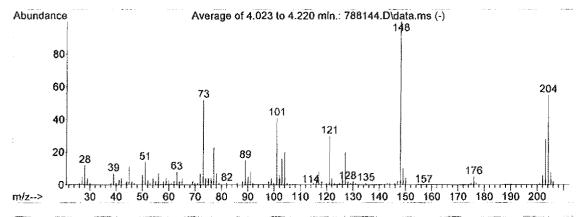
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

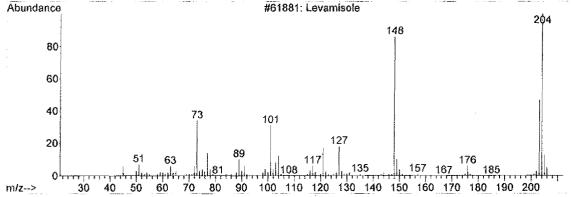
C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
1	4.06	C:\Database\NIST08.L			
		Levamisole		006649-23-6	98
		Levamisole		006649-23-6	98
		Imidazo[2.1-b]thiazole.	2.3.5.6-tet	014769-73-4	98





File Name : D:\SYSTEM8\05 15 11\788144.D

: P.PIRO Operator

Date Acquired 15 May 2011 20:56

Sample Name

Submitted by : ASD Vial Number 44 AcquisitionMeth: DRUGS.M Integrator : RTE

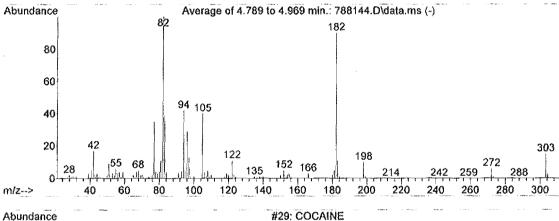
Search Libraries: C:\Database\SLI.L

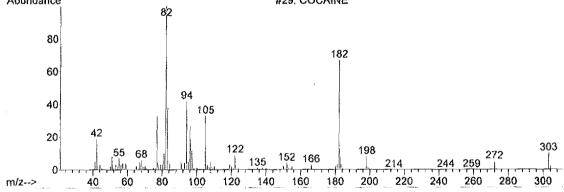
Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.83	C:\Database\SLI.L COCAINE	000050-36-2	99





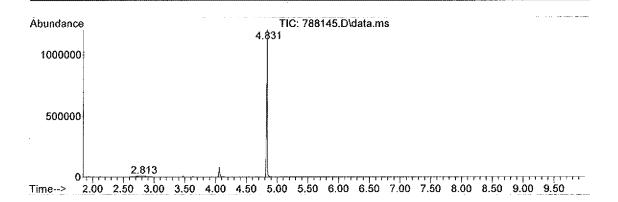
File Name : D:\SYSTEM8\05_15_11\788145.D

Operator : P.PIRO

Date Acquired : 15 May 2011 21:09

Sample Name : Submitted by :

Submitted by : ASD
Vial Number : 45
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.813 4.831		9.23 90.77	

File Name : D:\SYSTEM8\05_15_11\788145.D

Operator : P.PIRO

Date Acquired : 15 May 2011 21:09

Sample Name :

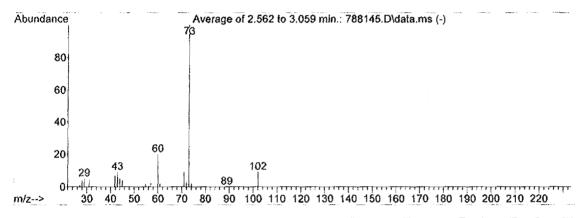
Submitted by : ASD
Vial Number : 45
AcquisitionMeth: DRUGS.M
Integrator : RTE

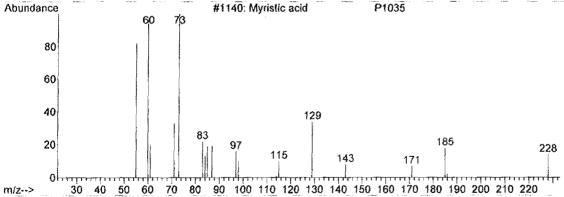
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW TOX2.L

		_		
 PK#	RT	Library/ID	CAS#	Qual
1	2.81	C:\Database\PMW_TOX2.L		
		Myristic acid	000544-63-8	1
		Valproic acid	000099-66-1	1
		Pholcodine-M 3TMS	00000-00-0	1





Minimum Quality: 80

: D:\SYSTEM8\05_15_11\788145.D File Name

Operator : P.PIRO

Date Acquired 15 May 2011 21:09

Sample Name

Submitted by : ASD Vial Number 45 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80

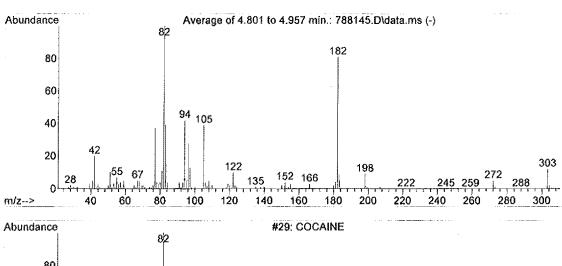
C:\Database\PMW_TOX2.L

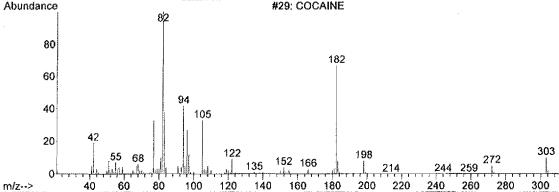
PK# RTLibrary/ID CAS# Qua1

2 4.83 C:\Database\SLI.L COCAINE

000050-36-2

99





788145.D

Wed Dec 21 08:04:57 2011

Page 3

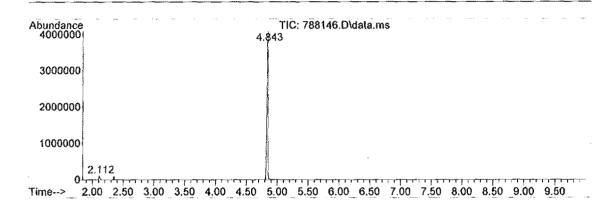
File Name : D:\SYSTEM8\05_15_11\788146.D

Operator : P.PIRO

Date Acquired : 15 May 2011 21:22

Sample Name

Submitted by : ASD Vial Number : 46 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.112 4.843		3.17 96.83	-

: D:\SYSTEM8\05_15_11\788146.D File Name

Operator : P.PIRO

Date Acquired 15 May 2011 21:22

Sample Name

Submitted by ASD Vial Number 46 AcquisitionMeth: DRUGS.M : RTE Integrator

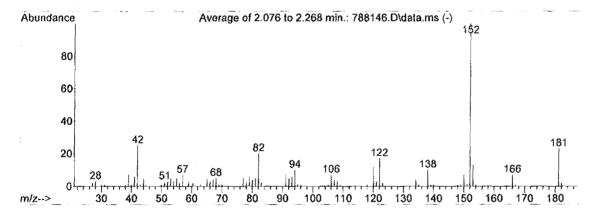
C:\Database\SLI.L Search Libraries:

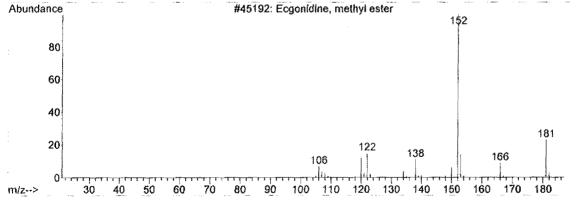
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
 1	2.11	C:\Database\NIST08.L	100000 04 0	
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	93
		3.5-Dimethoxyphenethylamine	003213-28-3	47





File Name : D:\SYSTEM8\05_15_11\788146.D

Operator : P.PIRO

Date Acquired : 15 May 2011 21:22

Sample Name :

Submitted by : ASD
Vial Number : 46
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

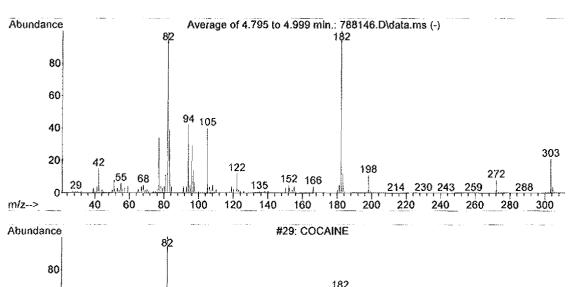
PK# RT Library/ID CAS# Qual

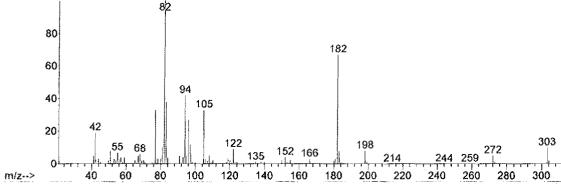
2 4.84 C:\Database\SLI.L

COCAINE

000050-36-2

99





788146.D

Wed Dec 21 08:04:59 2011

Page 3

File Name : D:\SYSTEM8\05_15_11\788147.D

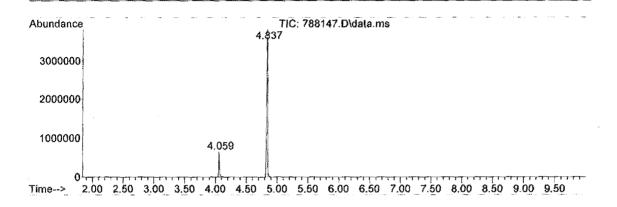
Operator : P.PIRO

Date Acquired : 15 May 2011 21:35

Sample Name Submitted by

: ASD : 47

Vial Number : 47 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.059 4.837		12.49 87.51	- · · · · ·

File Name : D:\SYSTEM8\05_15_11\788147.D

Operator : P.PIRO

Date Acquired 21:35 15 May 2011

Sample Name Submitted by

ASD

Vial Number AcquisitionMeth: DRUGS.M : RTE Integrator

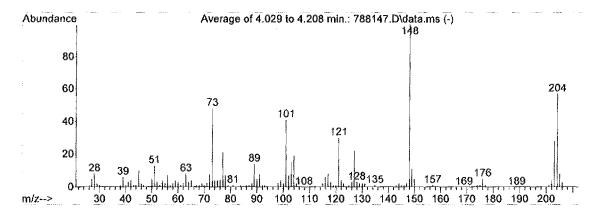
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

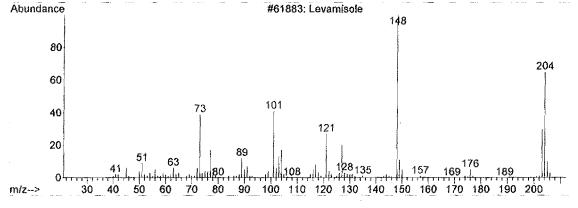
C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID		CAS#	Qual
 1	4.06	C:\Database\NIST08.L		,	
		Levamisole		006649-23-6	99
		<pre>Imidazo[2,1-b]thiazole,</pre>	2,3,5,6-tet	014769-73-4	99
		Levamisole		006649-23-6	97





File Name : D:\SYSTEM8\05_15 11\788147.D

Operator : P.PIRO

Date Acquired 15 May 2011 21:35

Sample Name

Submitted by Vial Number 47 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries:

55

60

80

100

120

140

40

C:\Database\SLI.L

C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW TOX2.L

PK# RTLibrary/ID CAS# Qual

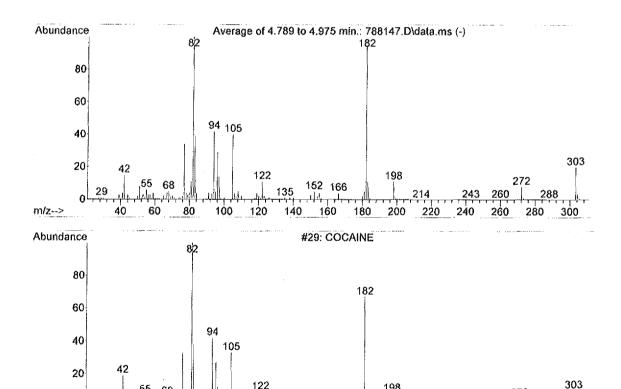
2 4.84 C:\Database\SLI.L

COCAINE

000050-36-2

Minimum Quality: 80

99



152 166

160

180

200

220

240

260

300

788147.D

m/z-->

Wed Dec 21 08:05:01 2011

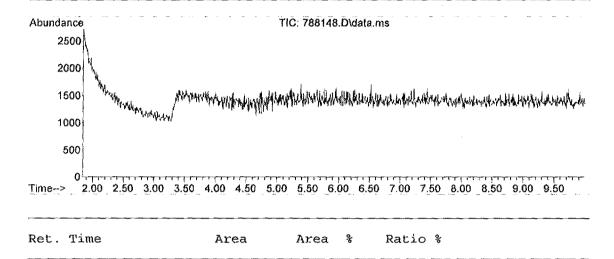
Page 3

File Name : D:\SYSTEM8\05_15_11\788148.D

Operator : P.PIRO

Date Acquired : 15 May 2011 21:48

Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



NO INTEGRATED PEAKS

File Name : D:\SYSTEM8\05_15_11\788149.D

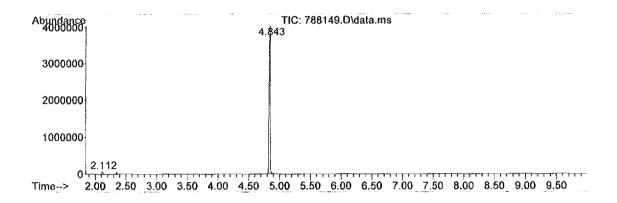
Operator : P.PIRO

Date Acquired : 15 May 2011 22:01

Sample Name : Submitted by :

: ASD : 49

Vial Number : 49 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.112 4.843		2.25 97.75		

File Name : D:\SYSTEM8\05_15_11\788149.D

Operator : P.PIRO

Date Acquired : 15 May 2011 22:01

Sample Name : Submitted by :

Submitted by : ASD
Vial Number : 49
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

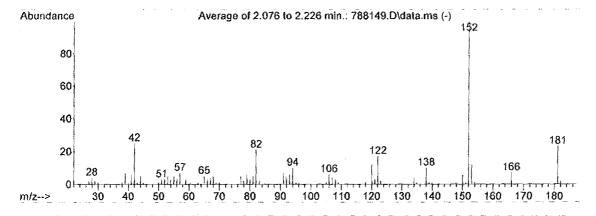
Minimum Quality: 80

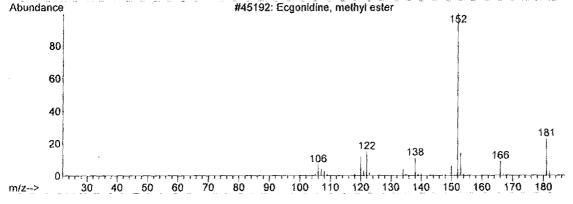
C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.11	C:\Database\NIST08.L		
1	2.11	Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl 2(1H)-Pyridinone, 4-hydroxy-6-methy		93 47





File Name : D:\SYSTEM8\05_15_11\788149.D

Operator : P.PIRO

Date Acquired : 15 May 2011 22:01

Sample Name :
Submitted by : ASD
Vial Number : 49
AcquisitionMeth: DRUGS.M
Integrator : RTE

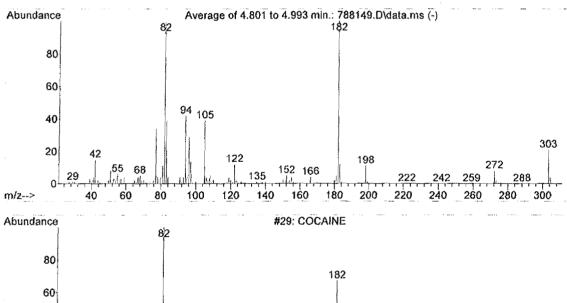
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

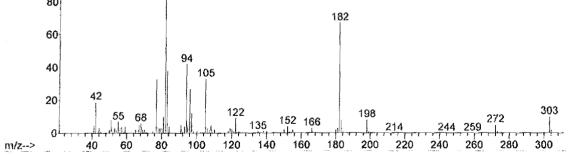
C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK# RT Library/ID CAS# Qual

2 4.84 C:\Database\SLI.L
COCAINE 000050-36-2 99



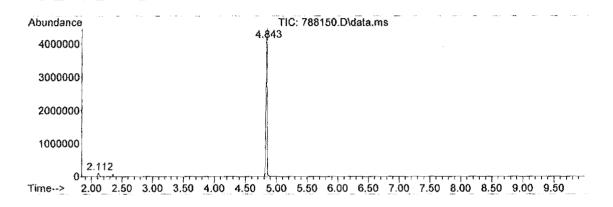


File Name : D:\SYSTEM8\05_15_11\788150.D Operator : P.PIRO

Date Acquired : 15 May 2011 22:14

Sample Name : ASD Submitted by Vial Number

: 50 AcquisitionMeth: DRUGS.M : RTE Integrator



Ret. Time	Area	Area %	Ratio %
2.112 4.843		3.11 96.89	

File Name : D:\SYSTEM8\05_15_11\788150.D

Operator : P.PIRO

Date Acquired 15 May 2011 22:14

Sample Name Submitted by

1.

ASD 50

Vial Number AcquisitionMeth: DRUGS.M RTE Integrator

Search Libraries:

C:\Database\SLI.L C:\Database\NIST08.L Minimum Quality: 80

Minimum Quality: 80

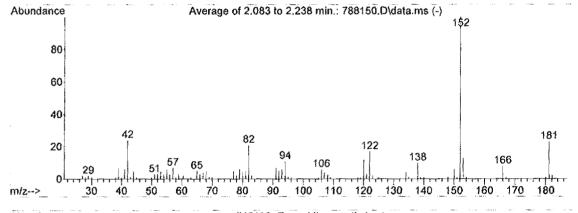
C:\Database\PMW TOX2.L

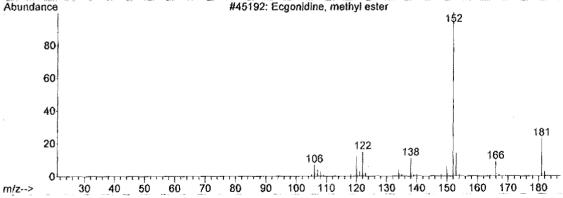
CAS# PK# RT Library/ID Qual

C:\Database\NIST08.L 2,11

98 Ecgonidine, methyl ester 127379-24-2 2-Carbomethoxy-8-methyl-8-azabicycl 043021-26-7 95

3,5-Dimethoxyphenethylamine 003213-28-3 43





File Name : D:\SYSTEM8\05 15 11\788150.D

Operator : P.PIRO

Date Acquired : 15 May 2011 22:14

Sample Name Submitted by

ASD Vial Number 50 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries:

C:\Database\SLI.L

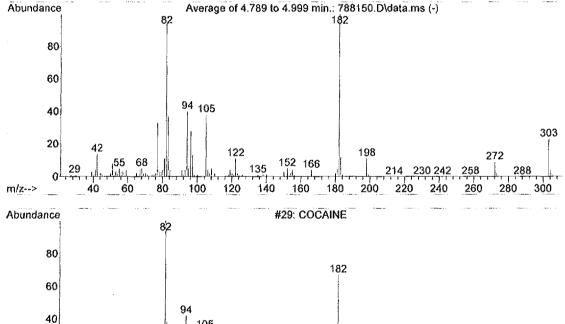
Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK# RTLibrary/ID CAS# Qual C:\Database\SLI.L 2 4.84 COCAINE 000050-36-2 99



105 20 303 198 55 68 152 166 272 135 0 m/z--> 40 60 80 100 120 160 180 200 220 240 260 300

File Name : D:\SYSTEM8\05_15_11\788151.D

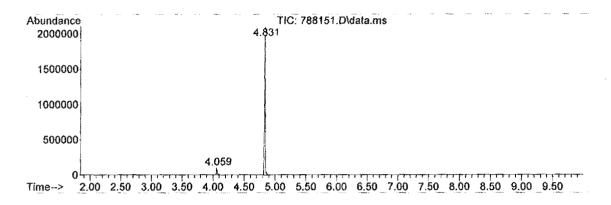
Operator : P.PIRO

Date Acquired : 15 May 2011 22:27

Sample Name : Submitted by : ASD Vial Number : 51

: ASD : 51

AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
4.059	112240 1780195	5.93 94.07	6.30 100.00	

File Name : D:\SYSTEM8\05_15_11\788151.D

Operator : P.PIRO

Date Acquired : 15 May 2011 22:27

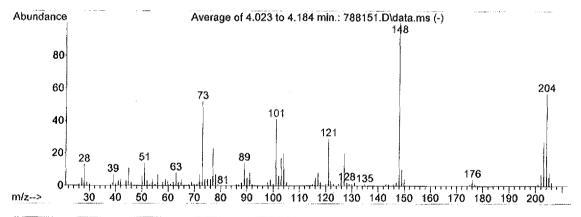
Sample Name :
Submitted by : ASD
Vial Number : 51
AcquisitionMeth: DRUGS.M
Integrator : RTE

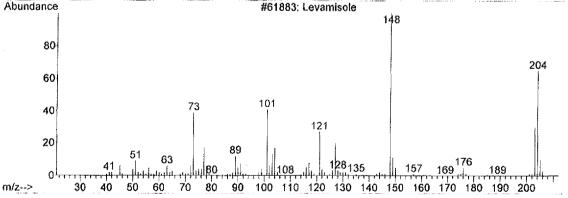
Search Libraries: C:\Database\SLI.L

C:\Database\SLI.L Minimum Quality: 80 C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW TOX2.L

PK# RTLibrary/ID CAS# Qual 1 4.06 C:\Database\NIST08.L Levamisole 006649-23-6 98 Imidazo[2,1-b]thiazole, 2,3,5,6-tet 014769-73-4 98 Levamisole 006649-23-6 97





File Name : D:\SYSTEM8\05 15 11\788151.D

Operator : P.PIRO

Date Acquired : 15 May 2011 22:27

Sample Name :

Submitted by : ASD
Vial Number : 51
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST08.L

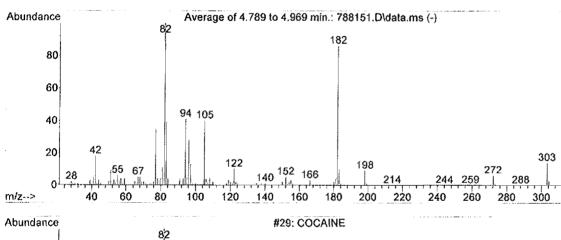
Minimum Quality: 80

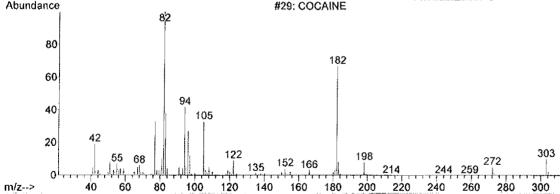
C:\Database\PMW_TOX2.L

PK# RT Library/ID CAS# Qual

2 4.83 C:\Database\SLI.L COCAINE

000050-36-2 99





File Name : D:\SYSTEM8\05_15_11\788152.D

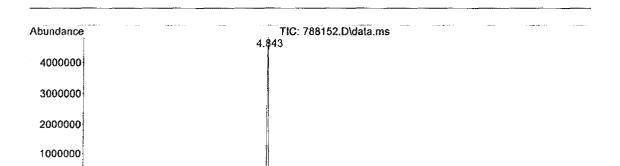
Operator : P.PIRO

Date Acquired : 15 May 2011 22:40

: RTE

Sample Name :
Submitted by : ASD
Vial Number : 52
AcquisitionMeth: DRUGS.M

Integrator



Ret. Time	Area	Area %	Ratio %	
2.112	144573	2.01	2.06	
4.843	7032196	97.99	100.00	

Time--> 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50

File Name : D:\SYSTEM8\05_15_11\788152.D

Operator P.PIRO

Date Acquired 15 May 2011 22:40

Sample Name

Submitted by Vial Number 52 AcquisitionMeth: DRUGS.M Integrator RTE

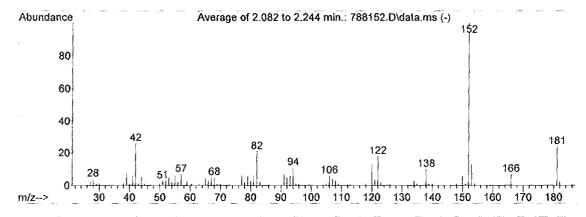
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

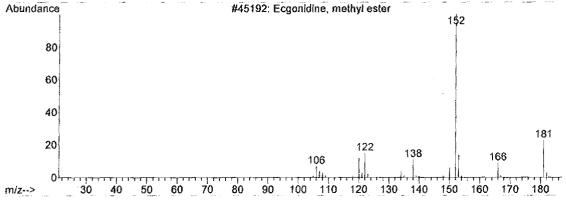
C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK# RT Library/I		RT	Library/ID	CAS#	Qual	
_	1	2.11	C:\Database\NIST08.L			
			Ecgonidine, methyl ester	127379-24-2	96	
			2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	93	
			3.5-Dimethoxyphenethylamine	003213-28-3	47	





File Name : D:\SYSTEM8\05 15 11\788152.D

Operator : P.PIRO

Date Acquired 15 May 2011 22:40

Sample Name

RT

PK#

Submitted by ASD Vial Number 52 AcquisitionMeth: DRUGS.M Integrator RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L C:\Database\PMW_TOX2.L

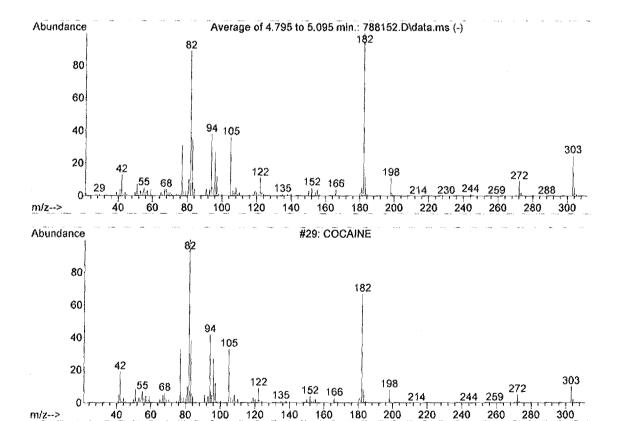
Library/ID CAS# Qual

2 4.84 C:\Database\SLI.L

COCAINE

000050-36-2

99



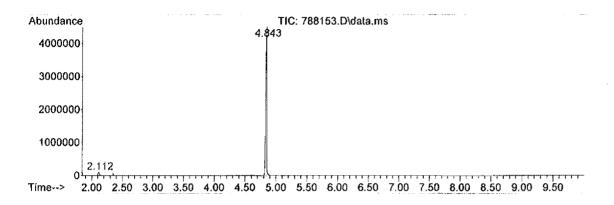
File Name : D:\SYSTEM8\05_15_11\788153.D

Operator : P.PIRO

Date Acquired : 15 May 2011 22:53

Sample Name :

Submitted by : ASD
Vial Number : 53
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.112 4.843		2.78 97.22		

File Name : D:\SYSTEM8\05 15 11\788153.D

Operator : P.PIRO

Date Acquired : 15 May 2011 22:53

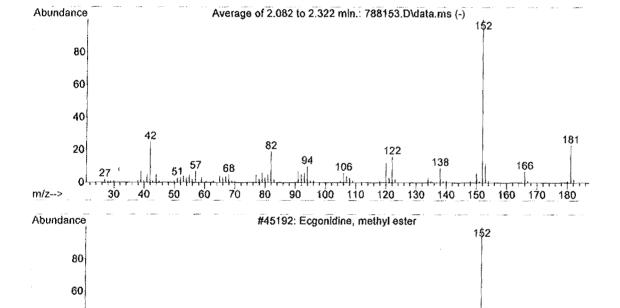
Sample Name :
Submitted by : ASD
Vial Number : 53
AcquisitionMeth: DRUGS.M
Integrator : RTE

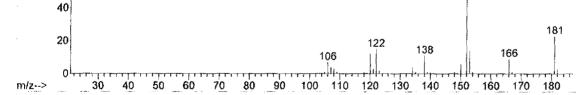
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW_TOX2.L

 PK#	RT	Library/ID	CAS#	Qual
1	2.11	C:\Database\NIST08.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	91
	ē	2(1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	50





: D:\SYSTEM8\05_15_11\788153.D File Name

Operator : P.PIRO

Date Acquired : 15 May 2011 22:53

Sample Name

Submitted by : ASD Vial Number 53 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

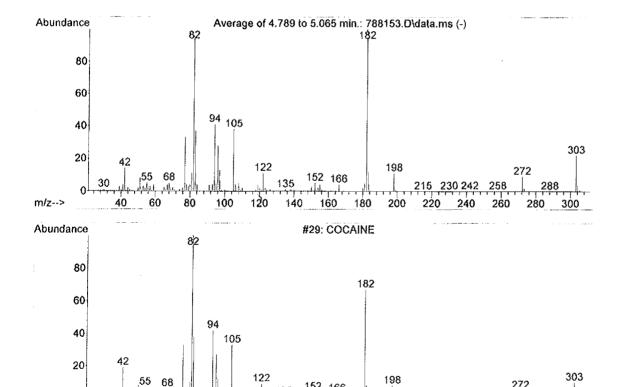
C:\Database\NIST08.L

C:\Database\PMW TOX2.L

Minimum Quality: 80

Minimum Quality: 80

PK# RT Library/ID CAS# Qual 2 C:\Database\SLI.L 4.84 COCAINE 000050-36-2 99



152 166

160

180

214

200

220

135

140

120

m/z-->

40

60

80

100

272

280

300

260

244 259

240

File Name : D:\SYSTEM8\05_15_11\788154.D

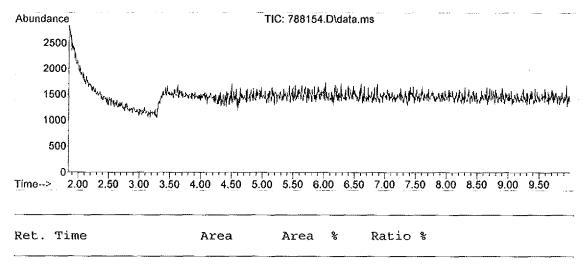
Operator ; P.PIRO

Date Acquired : 15 May 2011 23:06

Sample Name : BLANK

Submitted by

Vial Number : 2 AcquisitionMeth: DRUGS.M Integrator : RTE



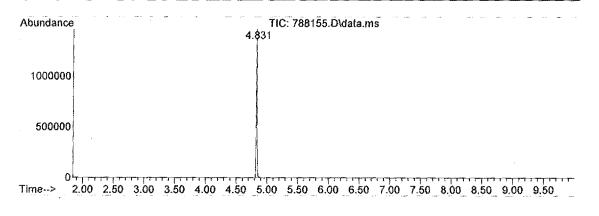
NO INTEGRATED PEAKS

File Name : D:\SYSTEM8\05_15_11\788155.D

Operator : P.PIRO
Date Acquired : 15 May 2011 23:19
Sample Name : COCAINE STD

Submitted by

Vial Number AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.831	1237536	100.00	100.00

: D:\SYSTEM8\05_15_11\788155.D File Name

Operator : P.PIRO

Date Acquired : 15 May 2011

Sample Name COCAINE STD

Submitted by

28

40

60

80

m/z-->

Vial Number 6 AcquisitionMeth: DRUGS.M Integrator : RTE

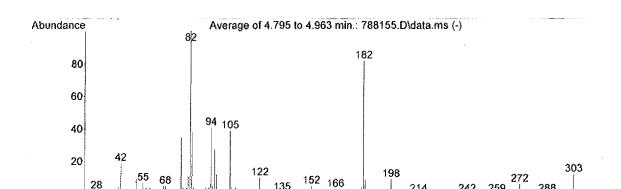
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.83	C:\Database\SLI.L COCAINE	000050-36-2	99



180

200

220

240

260

280

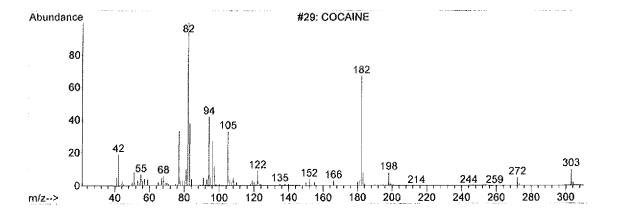
300

120

140

160

100

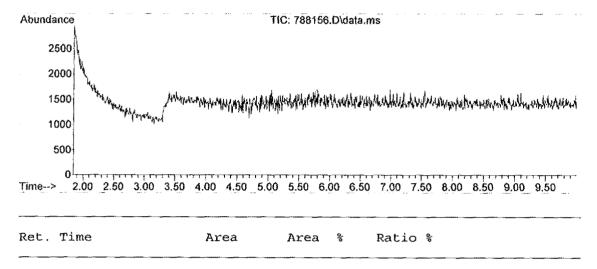


File Name : D:\SYSTEM8\05_15_11\788156.D

Operator : P.PIRO

Date Acquired : 15 May 2011 23:32

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



NO INTEGRATED PEAKS

File Name : D:\SYSTEM8\05_15_11\788157.D

Operator

: P.PIRO

Date Acquired : 15 May 2011 23:45

Sample Name Submitted by

: ASD

Vial Number AcquisitionMeth: DRUGS.M

: 57

Integrator

: RTE

Abundance 1500000 TIC: 788157.D\data.ms 4.831 1000000 500000 Time--> 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50

Ret. Time	Area	Area %	Ratio %
4.831	1306408	100.00	100.00

: D:\SYSTEM8\05_15_11\788157.D File Name

: P.PIRO Operator

Date Acquired 23:45 : <u>15 May 2011</u>

Sample Name Submitted by ASD Vial Number 57

AcquisitionMeth: DRUGS.M : RTE Integrator

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

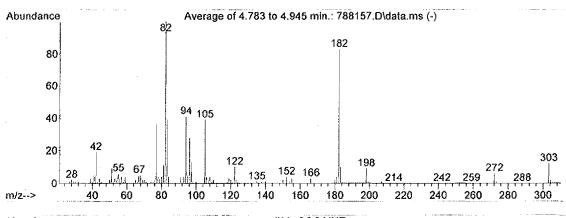
C:\Database\PMW TOX2.L

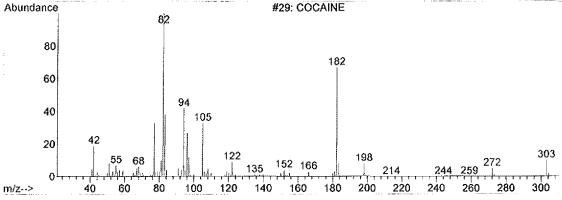
PK# RTLibrary/ID CAS# Qual

1 4.83 C:\Database\SLI.L

COCAINE

000050-36-2 99



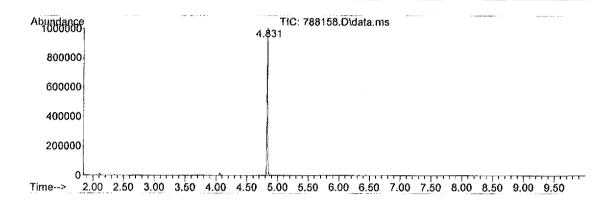


File Name : D:\SYSTEM8\05_15_11\788158.D

Operator : P.PIRO

Date Acquired : 15 May 2011 23:58 Sample Name :

Submitted by : ASD Vial Number : 58 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.831	920526	100.00	100.00

File Name : D:\SYSTEM8\05_15_11\788158.D

Operator : P.PIRO

Date Acquired : 15 May 2011 23:58

Sample Name

Submitted by : ASD
Vial Number : 58
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80

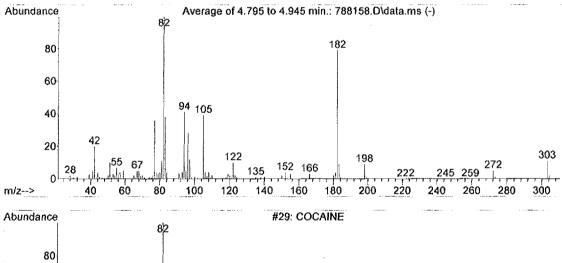
C:\Database\NIST08.L

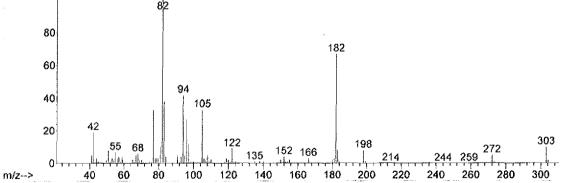
Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual







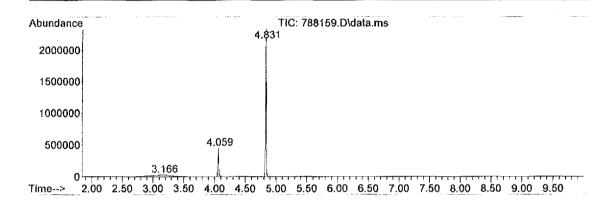
File Name : D:\SYSTEM8\05_15_11\788159.D

Operator : P.PIRO

Date Acquired : 16 May 2011 00:11

Sample Name

Submitted by : ASD
Vial Number : 59
AcquisitionMeth: DRUGS.M
Integrator : RTE



35 20.22	30.46	
09 13.39	20.17	
25 66.39	100.00	
(09 13.39	09 13.39 20.17

: D:\SYSTEM8\05 15 11\788159.D File Name

Operator : P.PIRO

Date Acquired 00:11 16 May 2011

Sample Name

Submitted by Vial Number 59 AcquisitionMeth: DRUGS.M Integrator : RTE

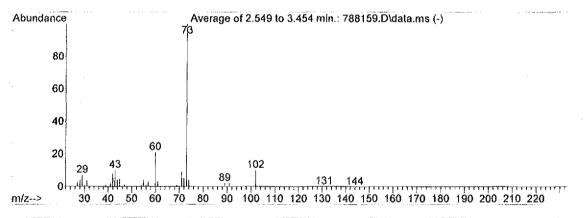
Search Libraries: C:\Database\SLI,L

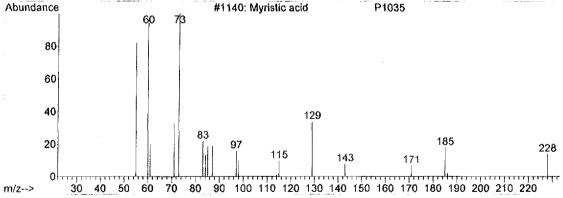
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.17	C:\Database\PMW_TOX2.L Myristic acid Valproic acid Pholcodine-M 3TMS	000544-63-8 000099-66-1 000000-00-0	2 2 1





File Name : D:\SYSTEM8\05 15 11\788159.D

Operator : P.PIRO

16 May 2011 Date Acquired 00:11

Sample Name Submitted by : ASD Vial Number 59 AcquisitionMeth: DRUGS.M Integrator : RTE

PK#

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80 Minimum Quality: 80

CAS#

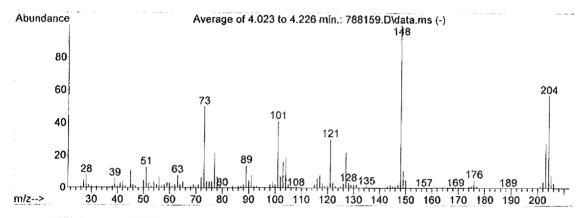
Oual

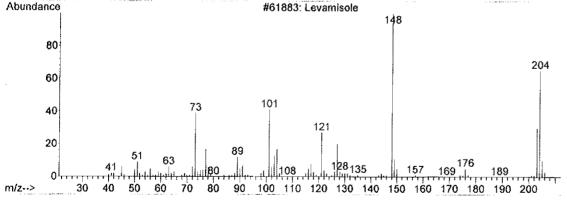
C:\Database\NIST08.L

C:\Database\PMW TOX2.L

RTLibrary/ID

2	4.06	C:\Database\NIST08.L Levamisole Imidazo[2,1-b]thiazole, 2,3,5,6-tet Levamisole	006649-23-6 014769-73-4 006649-23-6	99 99 97





File Name : D:\SYSTEM8\05 15 11\788159.D

Operator : P.PIRO

Date Acquired 16 May 2011 00:11

Sample Name Submitted by ASD Vial Number 59 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

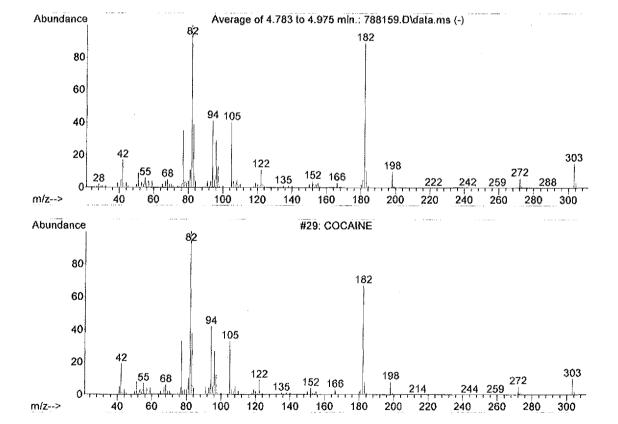
Minimum Quality: 80 C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW TOX2.L

PK# RT Library/ID CAS# Qual

3 4.83 C:\Database\SLI.L

COCAINE 000050-36-2 99



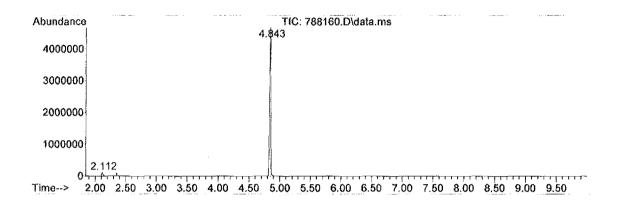
File Name : D:\SYSTEM8\05 15 11\788160.D

Operator : P.PIRO

Date Acquired : 16 May 2011 00:24

Sample Name

Submitted by : ASD
Vial Number : 60
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.112 4.843	6184941		100.00

: D:\SYSTEM8\05 15 11\788160.D File Name

Operator : P.PIRO

Date Acquired 00:24 16 May 2011

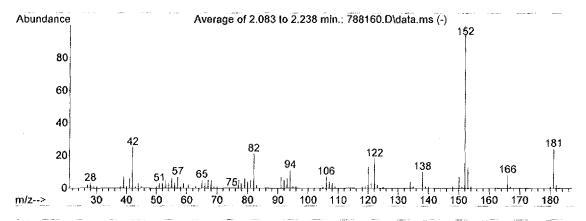
Sample Name Submitted by ASD Vial Number 60 AcquisitionMeth: DRUGS.M Integrator : RTE

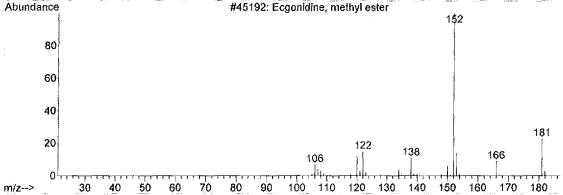
Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW_TOX2.L

PK# RTLibrary/ID CAS# Qual C:\Database\NIST08.L 1 2.11 Ecgonidine, methyl ester 127379-24-2 98 2-Carbomethoxy-8-methyl-8-azabicycl 043021-26-7 95 5-Methyl-2-nitroaniline 000578-46-1 43





File Name : D:\SYSTEM8\05_15_11\788160.D

Operator : P.PIRO

Date Acquired 16 May 2011 00:24

Sample Name Submitted by ASD Vial Number 60 AcquisitionMeth: DRUGS.M : RTE Integrator

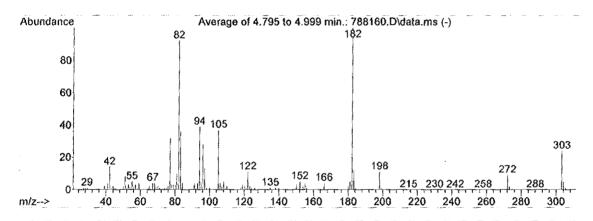
Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

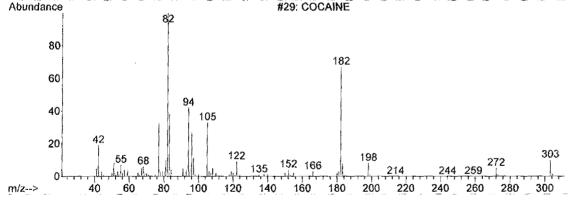
C:\Database\NIST08.L

C:\Database\PMW TOX2.L

PK# RT Qual Library/ID CAS#

2 4.84 C:\Database\SLI.L 000050-36-2 COCAINE





99

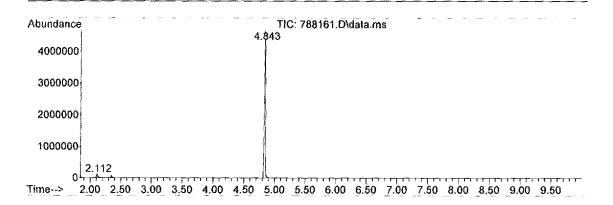
File Name : D:\SYSTEM8\05_15_11\788161.D

Operator : P.PIRO

Date Acquired : 16 May 2011 00:37

Sample Name :

Submitted by : ASD
Vial Number : 61
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.112 4.843		3.01 96.99	•	

File Name : D:\SYSTEM8\05_15_11\788161.D

Operator : P.PIRO

Date Acquired : 16 May 2011 00:37

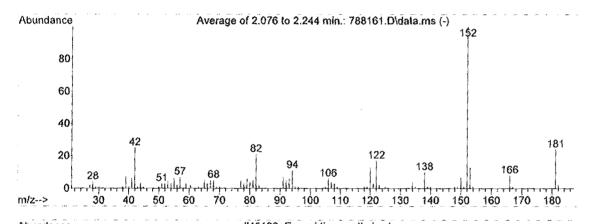
Sample Name :
Submitted by : ASD
Vial Number : 61
AcquisitionMeth: DRUGS.M
Integrator : RTE

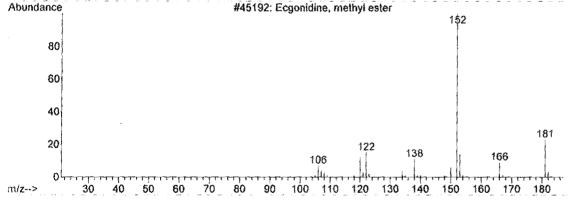
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
 1	2.11	C:\Database\NIST08.L	- <u> </u>	***************************************
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	93
		2(1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	47





File Name : D:\SYSTEM8\05_15_11\788161.D

Operator : P.PIRO

Date Acquired : 16 May 2011 00:37

Sample Name :
Submitted by : ASD
Vial Number : 61
AcquisitionMeth: DRUGS.M
Integrator : RTE

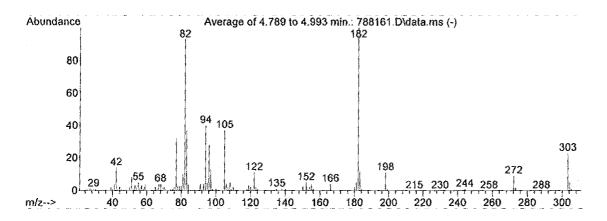
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

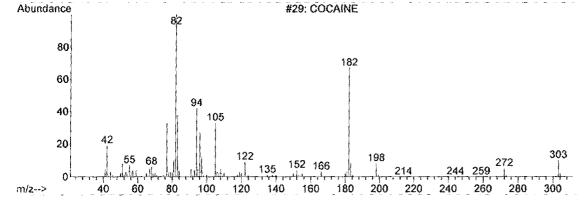
C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW_TOX2.L

PK# RT Library/ID CAS# Qual

2 4.84 C:\Database\SLI.L COCAINE 000050-36-2 99



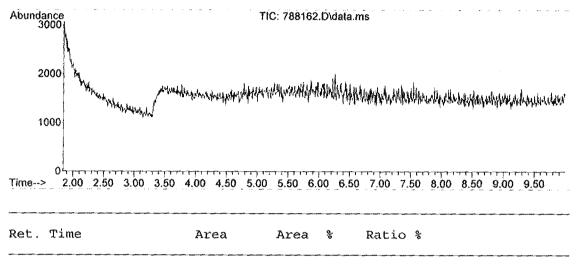


File Name : D:\SYSTEM8\05_15_11\788162.D

Operator : P.PIRO

Date Acquired : 16 May 2011 00:50

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



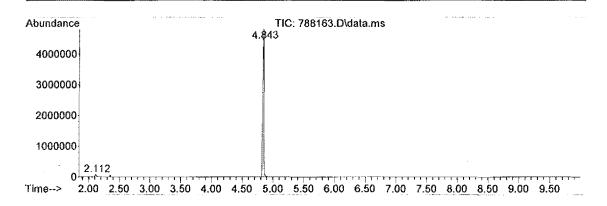
File Name : D:\SYSTEM8\05_15_11\788163.D

Operator : P.PIRO

Date Acquired : 16 May 2011 1:03

Sample Name

Submitted by : ASD
Vial Number : 63
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.112 4.843		1.93 98.07	1.97 100.00	

File Name : D:\SYSTEM8\05_15_11\788163.D

Operator : P.PIRO

Date Acquired : 16 May 2011 1:03

Sample Name :

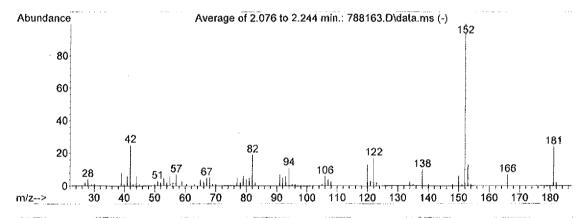
Submitted by : ASD
Vial Number : 63
AcquisitionMeth: DRUGS.M
Integrator : RTE

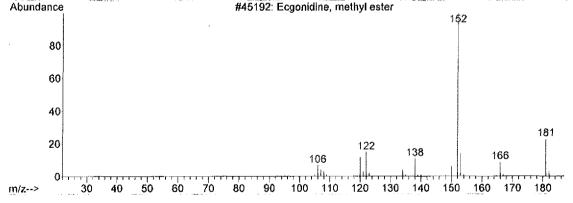
Search Libraries: C:\Database\SLI.L Minimum Quality: 80

C:\Database\NIST08.L Minimum Quality: 80

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2,11	C:\Database\NIST08.L Ecgonidine, methyl ester	127379-24-2	96
		2-Carbomethoxy-8-methyl-8-azabicycl 2(1H)-Pyridinone, 4-hydroxy-6-methy	043021-26-7	93 4 7





File Name : D:\SYSTEM8\05_15_11\788163.D

Operator : P.PIRO

Date Acquired : 16 May 2011 1:03

Sample Name : Submitted by : ASD

Vial Number : 63 AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80

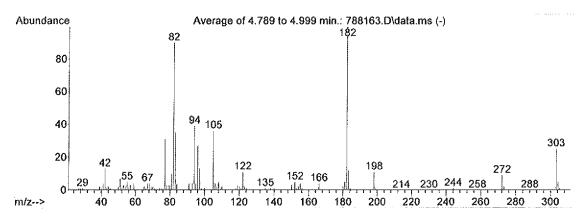
C:\Database\PMW_TOX2.L

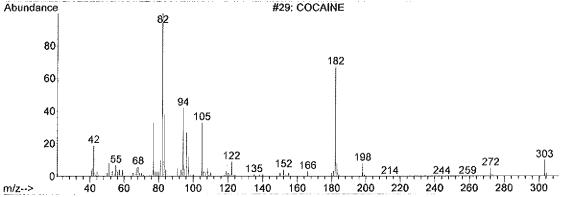
PK# RT Library/ID CAS# Qual

2 4.84 C:\Database\SLI.L COCAINE

000050-36-2

99





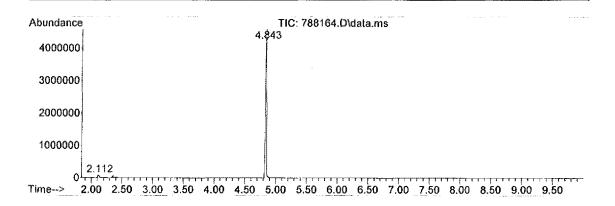
File Name : D:\SYSTEM8\05_15_11\788164.D

Operator : P.PIRO

Date Acquired : 16 May 2011 1:16

Sample Name :

Submitted by : ASD
Vial Number : 64
AcquisitionMeth: DRUGS.M
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.112 4.843	154060 5962539	2.52 97.48	2.58	

File Name : D:\SYSTEM8\05_15_11\788164.D

Operator : P.PIRO

Date Acquired 16 May 2011 1:16

Sample Name Submitted by

PK#

1

ASD 64

Vial Number AcquisitionMeth: DRUGS.M Integrator RTE

Search Libraries:

RT

C:\Database\SLI.L

Minimum Quality: 80 Minimum Quality: 80

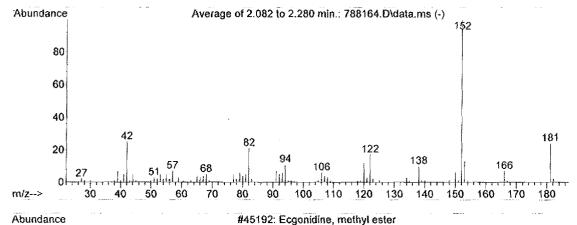
CAS#

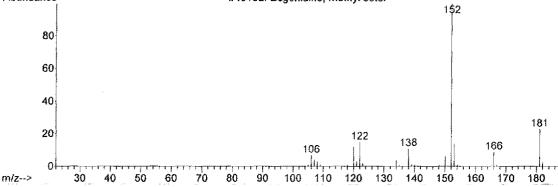
C:\Database\NIST08.L C:\Database\PMW_TOX2.L

Library/ID

Qual

2.11 C:\Database\NIST08.L Ecgonidine, methyl ester 96 127379-24-2 2-Carbomethoxy-8-methyl-8-azabicycl 043021-26-7 93 2(1H)-Pyridinone, 4-hydroxy-6-methy 007135-82-2 47





File Name : D:\SYSTEM8\05_15_11\788164.D

Operator : P.PIRO

Date Acquired : 16 May 2011 1:16

Sample Name :
Submitted by : ASD
Vial Number : 64
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L

Minimum Quality: 80

C:\Database\NIST08.L

Minimum Quality: 80

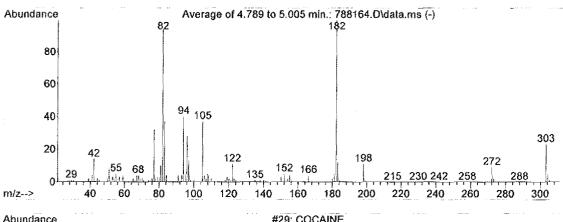
C:\Database\PMW_TOX2.L

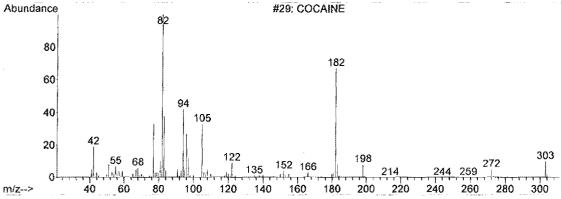
PK# RT Library/ID CAS# Qual

2 4.84 C:\Database\SLI.L

COCAINE

000050-36-2 99





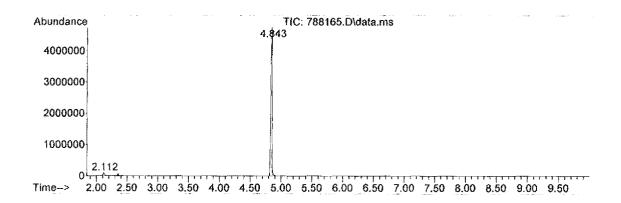
File Name : D:\SYSTEM8\05_15_11\788165.D

Operator : P.PIRO

Date Acquired : 16 May 2011 1:29

Sample Name

Submitted by : ASD Vial Number 65 AcquisitionMeth: DRUGS.M : RTE Integrator



Ret. Time	Area	Area %	Ratio %	
2.112 4.843	156873 6903133	2,22		
4.043	6903133	91.10	100.00	

File Name : D:\SYSTEM8\05_15_11\788165.D

Operator : P.PIRO

Date Acquired 16 May 2011 1:29

Sample Name

Submitted by : ASD Vial Number 65 AcquisitionMeth: DRUGS.M Integrator RTE

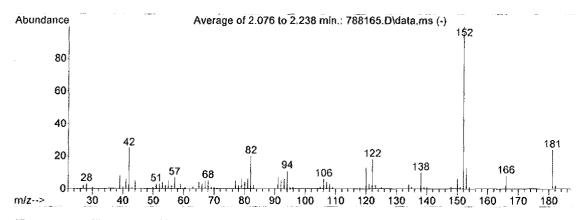
Search Libraries: C:\Database\SLI.L

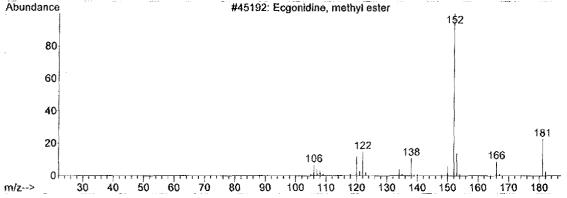
Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
 1	2.11	C:\Database\NIST08.L		
		Ecgonidine, methyl ester	127379-24-2	96
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	95
		2(1H)-Pyridinone, 4-hydroxy-6-methy	007135-82-2	49





File Name : D:\SYSTEM8\05_15_11\788165.D

Operator : P.PIRO

Date Acquired 16 May 2011

Sample Name Submitted by

Vial Number 65 AcquisitionMeth: DRUGS.M Integrator RTE

Search Libraries:

C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW TOX2.L

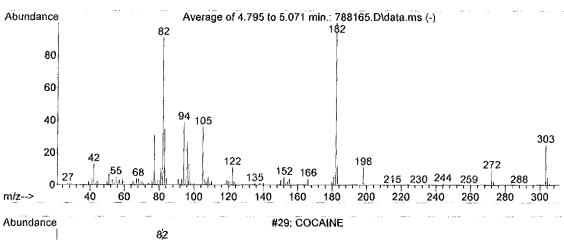
PK# RTLibrary/ID CAS# Qual

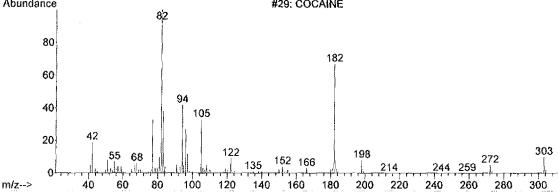
2 4.84 C:\Database\SLI.L

COCAINE

000050-36-2

99





File Name : D:\SYSTEM8\05_15_11\788166.D

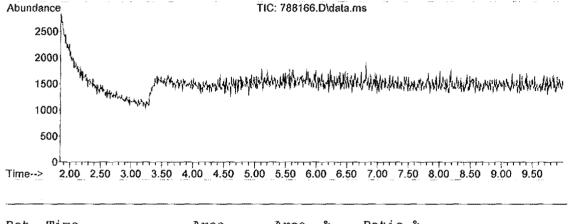
: P.PIRO Operator

Date Acquired : 16 May 2011 1:42

Sample Name : BLANK

Submitted by

Vial Number 2 AcquisitionMeth: DRUGS.M Integrator : RTE



Ret. Time

Area

Area %

Ratio %

NO INTEGRATED PEAKS

File Name : D:\SYSTEM8\05_15_11\788167.D

Operator : P.PIRO

Date Acquired : 16 May 2011 1:55

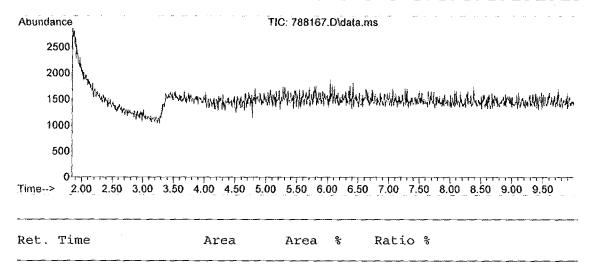
Sample Name : BLANK

Submitted by :

Vial Number :

AcquisitionMeth: DRUGS.M

Integrator : RTE



NO INTEGRATED PEAKS

File Name : D:\SYSTEM8\05_15_11\788168.D

Operator : P.PIRO
Date Acquired : 16 May 2011
Sample Name : COCAINE STD 2:08

Submitted by : Vial Number : 6 AcquisitionMeth: DRUGS.M Integrator : RTE

Abundançe	TIC: 788168.D\data.ms 4.\$31
1000000	
500000	
	2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.60 9.00 9.50

Ret. Time	Area	Area %	Ratio %
4.831	1226216	100.00	100.00

: D:\SYSTEM8\05_15_11\788168.D File Name

Operator : P.PIRO

Date Acquired : 16 May 2011 2:08

Sample Name : COCAINE STD

Submitted by

Vial Number AcquisitionMeth: DRUGS.M Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW_TOX2.L

RTPK# Library/ID CAS# Qual

1 4.83 C:\Database\SLI.L

COCAINE

000050-36-2 99

